

ABSTRACT

[0030] A method for forming a zeolite – carbon doped oxide (CDO) composite dielectric material is herein described. Zeolite particles may be dispersed in a solvent. The zeolite solvent solution may then be deposited on an underlying layer, such as a wafer or other dielectric layer. At least some solvent may then be removed to form a zeolite film. A CDO may then be deposited in the zeolite film to form a zeolite – CDO composite film/dielectric. The zeolite – CDO composite film/dielectric may then be calcinated to form a solid phase zeolite – CDO composite dielectric.